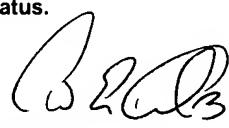


TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER PAK-001.01
		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) To be Assigned 10/525695
INTERNATIONAL APPLICATION NO. PCT/US03/025903	INTERNATIONAL FILING DATE 19 August 2003	PRIORITY DATE CLAIMED 19 August 2002
TITLE OF INVENTION Pathogen Resistant Carbide Surgical Tools		
APPLICANT(S) FOR DO/EO/US John C. Pappas III; Paul N. Pappas		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or Subsequent submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include item (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau.) b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input checked="" type="checkbox"/> An information Disclosure Statement under 37 CFR 1.97 and 1.98, Form 1449, and cited references AD-AF. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input checked="" type="checkbox"/> A power of attorney. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information. 7 sheets of formal drawings and a Return Receipt Postcard		

This collection of information is required by 37 CFR 1.41, and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.51) To be Assigned 10/525695		INTERNATIONAL APPLICATION NO. PCT/US2003/025903		ATTORNEY'S DOCKET NUMBER PAK-001.01	
21. The following fees are submitted:				Applicant Use	Office use only
<input checked="" type="checkbox"/> a) Basic national fee \$300.00				\$300.00	
<input checked="" type="checkbox"/> b) Examination fee \$200.00				\$200.00	
<input checked="" type="checkbox"/> c) Search fee (37 CFR 1.445(a)(2)) pd. On Int'l App. To USPTO as ISA .. \$500.00				\$100.00	
<input type="checkbox"/> TOTAL OF ABOVE CALCULATIONS = \$1000.00				\$600.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	Rate		
22- 100 =	0/50 =	0	x \$250.00	\$0	
Surcharge of \$130.00 for furnishing the oath declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(3)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	42-20 =	22	x \$50.00	\$1100.00	
Independent claims	3-3 =	0	x \$200.00	\$0	
MULTIPLE DEPENDANT CLAIM(S) (if applicable)			+ \$360.00	\$0	
TOTAL OF ABOVE CALCULATIONS =				\$1700.00	\$
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. the fees indicated above are reduced by 1/2.				\$850.00	
SUBTOTAL =				\$850.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$850.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property +				\$	
TOTAL FEES ENCLOSED =				\$	
Amount to be refunded:					
Amount to be charged					850.00
a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed.					
b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. 06-1448, Ref. PAK-001.01 in the amount of \$850.00 to cover the above fees.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1448, Ref. PAK-001.01. a duplicate copy of this sheet is enclosed.					
d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE; Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Customer No. 25181 Patent Group Foley Hoag LLP 155 Seaport Boulevard Boston, MA 02210-2600			 SIGNATURE Scott E. Kamholz NAME 48,543 REGISTRATION NUMBER		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Pappas et al.

For: PATHOGEN RESISTANT CARBIDE
SURGICAL TOOLS

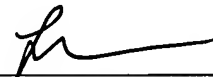
CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

I hereby certify that the following papers:

- Transmittal Letter to the United States Designated/Elected Office (in duplicate) (4 pages);
- Executed Declaration and Power of Attorney (2 pages)
- Application Data Sheet (3 pages)
- Information-Disclosure Statement (2 pages), Form 1449 (1 page) and copies of cited references AD - AF
- Preliminary Amendment (16 pages)
- Seven (7) sheets of Drawings, Fig. 1 - Fig.14

are being deposited with the United States Postal Service on February 22, 2005, with sufficient postage as Express Mail, Express Mail No EV 327706838 US, in an envelope addressed to:

Mail Stop PCT/DO/EO/US
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450.



Todd Williams